



## Pollen, allergies and adaptation

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### Abstract:

This chapter is dedicated to the problem of plant-induced human allergy and to a specific way of adaptation to it via short-to-mid-term forecasts of atmospheric pollen concentrations and following pre-emptive and preparatory measures. It starts from the introduction to the subject, then considers the main forms of human plant-related allergy. Then, basics of pollination ecology are introduced and the mechanisms and possible models for pollination are presented. Apart from the standard local-scale effect of pollination, the chapter considers the long-distance transport of pollen and outlines the methodology for its quantitative evaluation and forecasting. The final section is dedicated to possible adaptation measures in changing climate.

**Source:** [http://dx.doi.org/10.1007/978-1-4020-8921-3\\_5](http://dx.doi.org/10.1007/978-1-4020-8921-3_5)  
[http://link.springer.com/chapter/10.1007/978-1-4020-8921-3\\_5](http://link.springer.com/chapter/10.1007/978-1-4020-8921-3_5)

### Resource Description

#### Exposure :

weather or climate related pathway by which climate change affects health

Air Pollution, Temperature

**Air Pollution:** Allergens

**Temperature:** Fluctuations

#### Geographic Feature:

resource focuses on specific type of geography

None or Unspecified

#### Geographic Location:

resource focuses on specific location

Global or Unspecified

#### Health Impact:

specification of health effect or disease related to climate change exposure

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Respiratory Effect

**Respiratory Effect:** Upper Respiratory Allergy

**Mitigation/Adaptation:** ☒

mitigation or adaptation strategy is a focus of resource

Adaptation

**Resource Type:** ☒

format or standard characteristic of resource

Review

**Resilience:** ☒

capacity of an individual, community, or institution to dynamically and effectively respond or adapt to shifting climate impact circumstances while continuing to function

A focus of content

**Timescale:** ☒

time period studied

Time Scale Unspecified